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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRM 10/049,695 09/23/2002 Toshiaki Hasegawa 3147/6 7590 02/06/2004 **EXAMINER** David E Dougherty BARROW, JAMES G Dennison Schultz & Dougherty PAPER NUMBER ART UNIT 612 Crystal Square 4 1745 Jefferson Davis Highway 3749 Arlington, VA 22202 DATE MAILED: 02/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	10/049,695	HASEGAWA ET AL.
	Examiner	Art Unit
	James G. Barrow	3749
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).		
Status		
1) Responsive to communication(s) filed on 12/23	<u>3/03</u> .	
2a) This action is <b>FINAL</b> . 2b) This action is non-final.		
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims		
4)  Claim(s) 1-41 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) is/are allowed.  6)  Claim(s) is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) 1-41 are subject to restriction and/or election requirement.		
Application Papers		
9) The specification is objected to by the Examiner.		
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).		
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.		
Priority under 35 U.S.C. § 119		
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>		
Attachment(s)	_	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4)  Interview Summary Paper No(s)/Mail D 5)  Notice of Informal F 6)  Other:	

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## **DETAILED ACTION**

Acknowledgement is made of election of species on 12/22/03. On reconsideration the previous requirement for restriction on 7/24/03 has been withdrawn and the following election/restriction made.

## Election/Restrictions

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Group I: Figures 1(A), 2(A), 5(A), and 9(A). If applicant selects Group I, applicant is required to further select a subcombination:

Subcombination A: Figures 1(A) and 5(A).

Subcombination B: Figures 2(A) and 9(A).

Group II: Figures 1(B), 2(B), 3(A), 3(B), 3(C), 4, 5(B), 6, 7, 9(B), 10, 11, 12, 13, 17, 18, 19, 21, 22, 23, 24, 25, and 26. If applicant selects Group II, applicant is required to further select a subcombination:

Subcombination A: Figures 1(B), 3(A), 3(B), 3(C), 4, 5(B), 6, 7, 9(B), 10, 11, 12, 13, 17, 19, 21, 22, and 23. If applicant selects subcombination A, applicant is required to further select another subcombination:

Another Subcombination 1: Figures 1(B), 3(A), 3(B), 3(C), 4, 5(B), and 9(B).

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Another Subcombination 2: Figures 6, 7, 10, 11, 12, 13, 17, 19, 21,

22, and 23.

Subcombination B: Figures 2(B), 18, 24, 25, and 26.

Group III: Figures 1(C), 2(C), 8, and 20.

Group IV: Figures 15 and 16.

Group V (Air Preheating): Figures 14.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The following claim(s) are generic: 1, 2, and 14.

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: The species differ among each other by having various combinations of added steam, combustion gas heat exchange, air preheating, heat exchange occurring before fuel mixing area, heat exchange after fuel mixing area, and alternating between fuel and air mixing injection and combustion gas and steam mix injection.

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A telephone call was made to David E. Dougherty on 1/28/03 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

## **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James G. Barrow whose telephone number is (703) 305-5427. The examiner can normally be reached on M-F, 9:30 A.M.-6:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ira S. Lazarus can be reached on (703) 308-1935. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

James Barrow

Viels. Lazarus Supervisory Potent Examiner

Group 370%